19980107.ba v01_n868.bam.980107 v01_n869.bam.980107

>From ???@??? Wed Jan 07 09:27:47 1998
Message-Id: <199801071241.GAA03553@sco.theporch.com>
Date: Wed, 7 Jan 1998 06:41:31 CST
Subject: BOATANCHORS digest 1868

BOATANCHORS Digest 1868

Topics covered in this issue include:

  1) Re: '02 5-watt Xmit Tube and '10
     by "Paul Christensen" <paulc@mediaone.net>
  2) Re: SX101 AVC observations
     by "Parker, Al" <al_parker@research.kaiseral.com>
  3) thermal epoxy
     by Edward Zeranski <ejz@nosc.mil>
  4) R390A drift (and odor) problem
     by k5wq@juno.com (Stan Gilstrap)
  5) 813 Xtal Oscillator
     by don merz <71333.144@compuserve.com>
  6) Flexible coupling breakage
     by Bill Coleman N2BC <n2bc@ibm.net>
  7) ART-13 question;
     by jmccarty@lucent.com (John J Mccarty)
  8) CV-89A RTTY TU - Question
     by Stanley Wilson <microres@crl.com>
  9) WTB: SX-73 Manual
     by WJoeW <WJoeW@aol.com>
 10) 2 lunch hooks
     by "Parker, Al" <al_parker@research.kaiseral.com>
 11) Re: New BA's in Titanic
     by Paul Nelson <drhydro@ames.net>
 12) Wayne Kerr Address
     by Scott Robinson <spr@earthlink.net>
 13) Valiant 2 survives surgery.
     by L & M <toneri@ils.net>
 14) Re: Flexible coupling breakage
     by bdhall@ghg.net (Benjamin D. Hall)
 15) Fringe Howl in Regenerative Detectors
     by FRANKK6NL <FRANKK6NL@aol.com>
 16) FLUKE DIGITAL METER
     by PIERRE <dupp@river.netrover.com>
 17) FS Measurements Corp Model 59
     by Jim Coe W5JI <jcoe@brightok.net>
 18) FS BC-669
     by Jim Coe W5JI <jcoe@brightok.net>
 19) EICO 710 GDO

by Sandy W5TVW <ebjr@worldnet.att.net>
20) Stromberg Carlson Info.
by kb5wwo@juno.com (George T Folse)
21) Re: Service manuals-UK sources
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
22) Re: A Seiberling radio? What?
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
23) Re: CV-89A RTTY TU - Question
by Bob Roehrig <broehrig@admin.aurora.edu>
24) FS Gonset G66B Receivers
by Jim Coe W5JI <jcoe@brightok.net>
25) RT-3 finally arrived
by Bob Roehrig <broehrig@admin.aurora.edu>
26) Tubes
by Kevin Gallagher <wire2liv@gomontana.com>
27) Re: A Seiberling radio? What?
by polepeeg@aa4rm.radio.org (BA x-actions hr)
28) 6D5s anyone?
by polepeeg@aa4rm.radio.org (BA x-actions hr)
29) Re: 6D5s anyone?
by William Donzelli <william@ans.net>

Date: Tue, 6 Jan 1998 13:36:17 -0500
From: "Paul Christensen" <paulc@mediaone.net>
To: <dmcintyr@acs6.ACS.UCALGARY.CA>,
"Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: '02 5-watt Xmit Tube and '10
Message-ID: <01d301bd1ad1$fb4f30c0$2f2c8118@jaxadmin2-89.se.mediaone.net>

Thanks for the historical data on the UV-202. This is the only tube I collect as I use them in my 1920s Hartley transmitters. I had no idea that the tube was displaced by the model 10. What are the differences in electrical characteristics? If anyone has Brass-based, tipped UV-202 versions, I'll be glad to take them off your hands! Thanks!

-Paul

Date: Tue, 06 Jan 1998 11:10:00 -0800
From: "Parker, Al" <al_parker@research.kaiseral.com>
To: boatanchors@theporch.com
Subject: Re: SX101 AVC observations
Message-ID: <Megw.7459807@post.fabrik.com>

I do now see that the sel. sw. S2C rear wafer can change the signal strength to the detector by changing the res. to gnd of the final IF coil bottom end. & I guess the S2C front wafer will change the impedance to ground of the top end of the coil. So maybe that's the way it's supposed to be.

Still be glad to hear anyone's thoughts.

73, Al, W8UT al_parker@kacc.com

Date: Tue, 06 Jan 1998 11:47:37 -0800
From: Edward Zeranski <ejz@nosc.mil>
To: boatanchors@theporch.com
Subject: thermal epoxy
Message-ID: <3.0.1.32.19980106114737.0070550c@marlin.nosc.mil>

The adhesive I used on the 807 was from Wakefield Engineering #150 series. Our original use was to bond series 652 anodized aluminum heatsinks to gold plated high speed line drivers etc. The tube was in a box of mixed stuff from a swapmeet having both loose base and cap. Was able to resolder the cap after bedding it in the epoxy then secure the base. Happy to report the 807 is alive and well in a friends 6AG7/807 HBTX .

In Newark catalog #113 the stuff is on page 225...or look up heatsinks then find 652 series Wakefield which will have a reference to the adhesive. Don't know if it works all the time or everytime but it worked for me. Good luck.

Ed Zeranski This is a private opinion or statement.
home email: ezeran@cris.com

Date: Tue, 06 Jan 1998 16:21:32 EST
From: k5wq@juno.com (Stan Gilstrap)
To: boatanchors@theporch.com
Subject: R390A drift (and odor) problem
Message-ID: <19980106.152004.5263.0.k5wq@juno.com>

Hi BAer's, I've got a trouble-shooting question for you.

This morning after my R390A had been on for about 30 minutes it started drifting in frequency. It was tuned to 740kc and by the time I shut it off the frequency read-out was down to

722kc just to stay tuned to the 740kc station. The same effect was noticed on the 1 mc band. The 100kc calibration was checked and it was off by a like amount and as well as cutting in and out. No further checks were made after I began to notice the distinct odor of something getting too hot. That's when I turned it off and unplugged it.

Anyone had a similiar problem with this type of drift? I'm wondering if something in the VFO would produce this symptom. That's my guess at this point anyway.

(And it would have to do this now. I had planned a few days of serious R390A use while I recuperated at home from the hernia surgery I had yesterday. Now I not only cannot use the radio, I can't even carry it over to the workbench to see what's wrong with it! According to the doctor I should be able to lift it sometime in April.)

But anyway, I appreciate any R390A tips you all might have.

73 de Stan - K5WQ

k5wq@juno.com

(ouch)

Date: Tue, 6 Jan 1998 17:42:30 -0500
From: don merz <71333.144@compuserve.com>
To: boatanchors@theporch.com
Subject: 813 Xtal Oscillator
Message-ID: <199801061745_MC2-2E4F-39D0@compuserve.com>

I corrsponded with someon on this list about a crystal oscillator using a single 813 tube. But I deleted those e-mails. Now I found the circuit he was looking for.

So please stand up and be counted--I am holding your 813 crystal oscillator circuit hostage!

73, Don

Date: Tue, 6 Jan 1998 23:33:40 -0800
From: Bill Coleman N2BC <n2bc@ibm.net>
To: boatanchors@theporch.com
Subject: Flexible coupling breakage
Message-ID: <BMSMTP8841576404wf2awdc@pop3.ibm.net>

I recently finished restoring a Globe King 275 which is having it's 50th birthday (just like me). The RF chassis is full of ceramic flexible couplings - it uses them in pairs as 'U-joints' for significant offsets of the variable caps in addition to providing electrical isolation.

Here's the problem: When these things sit unused in one position for 20 or 30 or 40 years, they develop quite a memory. I've only had the RF deck back together for a couple weeks and in the last 2 days have had two of the couplings break.

I've inspected all the couplings and see no cracks in the spring metal parts, and all the caps rotate freely.

So, all you mechanical engineering dudes (and dudettes) - any way to 'erase' the mechanical memory or limber these things up so they won't break? Heating? Cooling? Both? Verbal incantations? Or should I get used to horsing this 200 pound beastie around (I need the exercise).

Happy New Year all 73, Bill

Bill Coleman (N2BC)

Email: n2bc@ibm.net

Date: Tue, 6 Jan 1998 17:35:23 -0600
From: jmccarty@lucent.com (John J Mccarty)
To: boatanchors@theporch.com
Subject: ART-13 question;
Message-ID: <199801062335.RAA07822@nwsgpb.ih.lucent.com>

Art-13 folk;

To what pins on the connector on the side of the art-13, which U7 plugs into, do I put the voltages (24, 450, 1120)???. Connector is also know as J108???

John McCarty
n9hrt
jmccarty@lucent.com

Date: Tue, 6 Jan 1998 16:04:07 -0800 (PST)
From: Stanley Wilson <microres@crl.com>
To: boatanchors@theporch.com
Cc: greenkeys@qth.net
Subject: CV-89A RTTY TU - Question
Message-ID: <Pine.SUN.3.91.980106155559.10502A-100000@crl7.crl.com>

The CV-89A was apart of a AN/URA-8B. I am only working with the CV-89A.

I have figured out how to get it to receive. I am not sure how it generates the correct shift on transmitt. Is there anyone on the list that many have used or service one of these in the military ?

The tone generator (xmit) appears to have fixed center frequencies. between 595 hz and 1765 hz (170 hz steps) I would expect from the age of the unit that it would have done 170 hz, 425 hz and 850 hz shifts.

So looking for info on how it may have worked. Also would like to have a good manual. I have Navships 91490 instruction book. It does not give any theory on how the system worked.

Thanks, de Stan AK0B

Date: Tue, 6 Jan 1998 19:10:05 EST
From: WJoeW <WJoeW@aol.com>
To: boatanchors@theporch.com
Subject: WTB: SX-73 Manual
Message-ID: <2e396c55.34b2c7e5@aol.com>

I just obtained a decent Hallicrafters SX-73, sans manual. I would prefer to get an original one if someone has one they would part with, before I buy a copy from someone.

Holler if you have a spare.

Joe
W5WBR

Date: Tue, 06 Jan 1998 16:13:00 -0800
From: "Parker, Al" <al_parker@research.kaiseral.com>
To: boatanchors@theporch.com
Subject: 2 lunch hooks
Message-ID: <Megw.7465799@post.fabrik.com>

Sunday at Livermore, I succumbed to the lure of two small, interesting, and not very useful lunch hooks. Some time ago a list member, more nautically inclined than I, defined very small BA's as the small anchor (hook) used to hold the craft at the beach while lunch was enjoyed close by.

Jim Carrington, and Tony, KC6BSJ, witnessed this, and Jim actually aided and abetted. I had mentioned to them that I had seen a "neat" old RF bridge, in a small slope front case, with a wooden top cover. We went to take a look, it turned out to be made in England. Jim picked up another item, a Ballantine Cap. Checker. We both examined it, spoke about how sensitive it was, the fact that it would measure down to under 0.01 pf, its condition, and how neither of us really needed it. He finally put it down, and looked further. I picked it up and made the guy an offer for the pair, which, after a rainy morning with not many folks left, he accepted.

Why do we do these things? Maybe I had withdrawal pains, since I had skipped the last month rainout, and hadn't bought anything to add to the project list for several weeks. But my project list has grown much faster than my completion rate in the last several months. These aren't really much of a project, the Ballantine actually works, and seems to be in reaonable calibration.

The RF bridge, when I finally opened the top at home after lubing the hinge so the wood wouldn't fracture, and pulled it out of the case so I could see it's inner workings, turned out to be nicely made, not quite the quality of Gen Rad, but what really had attracted me was the prettiness of it. A nice stained wood top, two big satin dials, lots (for its size) of knobs, in great condition, each with a "fixing" slotted Tee-nut in the center, and a row of knurled, satin fin., terminal post nuts on top.

I've been an easy mark for RF bridges for a long time. Had 2 different GR models, lots of HB noise bridges, and still have a Boonton RF bridge with internal source & detector (don't remember model nr now, but saw one at Livermore Sun. & was tempted, but why?). What gets used most often is the Autek RF-1 little hand held sand state, sorry but it's easy.

Anyway, by chance, does anyone know any history on the RF Bridge,

type B601, 15kc - 5mc, The Wayne Kerr Labs, Chessington, Surrey, England? Has L, C, R, range multipliers of x0.1, x1, x10.

The Ballantine Mod. 520 Direct Capacitance Meter has 9 ranges, from x0.01pf to x1.0mf. No probe came with it, but even with test leads it seems quite accurate down to about 40pf. Uses 1kc source, has 7 tubes. Super quality internal construction. Does anyone have a probe available (fat chance), or could provide any info on type of connecting cable & probe construction?

Any help, condolences, therapy, etc., would be appreciated. Arden Allen had a similar problem, but had more weight to carry home than I did on Sun.

73, Al, W8UT al_parker@kacc.com
Dublin, CA

Date: Tue, 6 Jan 1998 18:42:31 -0500
From: Paul Nelson <drhydro@ames.net>
To: "Roberta J. Barmore" <rbarmore@indy.net>
Cc: boatanchors@theporch.com
Subject: Re: New BA's in Titanic
Message-ID: <v03010d04b0d86ee4120a@[206.29.126.191]>

> ...Wonder if those who've seen the movie noticed a maggie in the
>(various) radio operating room(s)? From the photo of Olympia's (very
>similar) radio shack, it would have been on the wall, just above the
>receiving tuner (on the desk) and below the emergency spark rig. It looks

didn't notice such a beast in the movie... am going to see it again, and also the earlier "night to remember"....

My father always told me that he heard the Titanic's CQD (he was specific on the CQD part, BTW.). He would have been a 15-yr-old at the time, in Fort Smith, Arkansas, with a crystal set... a bit later, chief radio officer for Munson Steamship Lines, plying the Caribbean. Great Lakes Naval Radio school, NSS, spark, arc, etcetera... I wish there were a way of knowing whether he really *did* hear that historic signal. Had a barnful of old spark gear before he got rid of it in the mid-fifties. (oh had I a time machine..)

Paul Nelson W5GNF "When I go, I want to go quietly, in my
Ames, Iowa sleep, like my grandfather- not

screaming, like his passengers."
(DrHydro@ames.net)
"More hay, Trigger?"
Cessna 140 N77149 "No thanks, Roy, I'm stuffed."

Date: Tue, 06 Jan 1998 17:58:17 -0800
From: Scott Robinson <spr@earthlink.net>
To: boatanchors@theporch.com
Subject: Wayne Kerr Address
Message-ID: <34B2E139.8D59A42F@earthlink.net>

Folks:

UK address as of 1980-something:

Wayne-Kerr
Durban Road
Bognor Regis
West Sussex
PO22 9RL
UK

phone +0243.825811

They also have a US office as of 1993:

Wayne Kerr Inc.
11 Sixth Road
Woburn MA 01801-1744

800-933-9319

Hopefully this will permit Lunch Hook documentation to be found.

Regards,

Scott Robinson
spr@earthlink.net
--
Scott Robinson
spr@earthlink.net

Junque is GOOD for you!

Date: Tue, 6 Jan 1998 21:15:23 -0500 (GMT-0500)
From: L & M <toneri@ils.net>
To: boatanchors@theporch.com
Subject: Valiant 2 survives surgery.
Message-ID: <199801070215.VAA04416@server1.ils.net>

Got the Valiant 2 repaired again. That resistor in the VFO cabinet sure must have got real hot because upon closer inspection, the solder on the 0A2 socket had melted and the lead from the reisitor was just hanging there. I found a couple of 33k 4 watt resistors so I paralleled them, mounted them under the chassis on a terminal strip and ran a couple of leads up inside the VFO cabinet to the 0A2. This is the first mod that should be done to these any Johnson transmitter with the built-in VFO. I have had the transmitter on for the past 4 hours and so far all is OK. The resistors still get quite warm but not hot enough to discolour the bands. If they go, I'll put in a nice 10 watt one.

The hardest part of the entire repair is removing and replacing the side cover on the VFO cabinet.

73...Mike VE3FGU
****
Mike & Lynda Toneri E-mail: toneri@ils.net
Keswick, Ontario
WEBPAGE: http://www.geocities.com/heartland/meadows/8218
****

Date: Tue, 06 Jan 1998 20:52:19 -0600
From: bdhall@ghg.net (Benjamin D. Hall)
To: n2bc@ibm.net
Cc: BoatAnchors@SCO.ThePorch.Com
Subject: Re: Flexible coupling breakage
Message-ID: <3.0.32.19980106204434.006d87dc@mailman.ghgcorp.com>

>So, all you mechanical engineering dudes (and dudettes) - any way to 'erase'
>the mechanical memory or limber these things up so they won't break?
Heating?
>Cooling? Both? Verbal incantations? Or should I get used to horsing
this 200
>pound beastie around (I need the exercise).

Personally, I like the verbal incantation method... ;) I'm a mech engr, but I'm not a metalurgist - but I do remember that some metals,

particularly steels, do harden with age, making them more brittle. (I don't remember the how and why as to why this occurs) Any idea what material they are? Any metalurgists or materials folks out there?

If steel, which I think the ones I've worked with are, slow heating and slow cooling may remove the brittleness. But, the ones I've played with have a needed "springyness", and getting that temper would be difficult.

Comments?

Thanks and 73,
Ben

Benjamin D. Hall, KD5BYB, Engine and radio collector / operator.
Located in Houston, Texas, USA.
e-mail: BDHall@ghg.net, web: http://www.ghgcorp.com/bdhall.
"An ye harm none, do what ye will."

Date: Tue, 6 Jan 1998 22:13:30 EST
From: FRANKK6NL <FRANKK6NL@aol.com>
To: Boatanchors@theporch.com
Subject: Fringe Howl in Regenerative Detectors
Message-ID: <79e8e569.34b2f2e0@aol.com>

Ho4bart wrote

for fringe howl in regen receivers, i don't think it's as simple as audio feedback, but i may/ probably be wrong. it only seems to happen when there's audio inductance (H not uH or mH) in the plate circuit. it sounds, i think, like a tuned circuit ringing, so i wonder if the L + C of the plate inductance is somehow being hammered.>

Right on !! And it is being hammered by the sudden change in detector plate current as the detector moves in to or out of oscillation.Modern high quality audio transformers seem to be worse in this regard than the old kind of junky ones used in the RCA and Crosley regenerative receivers of the twenties. Fringe howl can be avoided completely with pentodes using cathode feed back and resistance couplng such as I described in my note "Pentode Regen Rcvr Detectors"in Digest 1867.

Frank

Date: Tue, 06 Jan 1998 22:26:41 -0500
From: PIERRE <dupp@river.netrover.com>
To: boatanchors@theporch.com
Subject: FLUKE DIGITAL METER
Message-ID: <34B2F5F1.4232@mail.netrover.com>

Hello
I have 2 digital multimeter FLUKE MODEL 8000A
Both are not working and I have no manual to fix it.
What I need is a copy of the wiring diagram.
I will pay all expenses.
thanks...Pierre....VE2MP

Date: Tue, 6 Jan 1998 21:46:52 -0600 (CST)
From: Jim Coe W5JI <jcoe@brightok.net>
To: baswaplist@foothill.net
Cc: boatanchors@sco.theporch.com
Subject: FS Measurements Corp Model 59
Message-ID: <199801070346.VAA17614@cowboy.brightok.net>

I'm sure I'll regret this, but.....I really need
to clear out some gear from the shack to make room for
my two, in progress, BA operating positions. I've sort
of been collecting grip dippers for several years, but
always seem to pick up my old favorite, the Millen SS
(shh.....) when I'm working on rigs. Therefore, I've
decided the 59 needs to find other loving hands which
will put it to more use.

The base unit is SN 1042. Except for the back top edge
where property/asset tags were glued, the unit is in
very good condx. The original feet, the wooden coil rack
and coils, the meter and knobs are excellent. There is
some flaking off of the black crinkle paint around three
of the case screws and the property/asset tag area has
been painted over (not well, but fixable if desired).

The HF/VHF head is the matching SN 1042 and is in excellent
condx with only one paint scrape (about 1 inch) on the back,
right edge of the case.

This unit also includes the optional UHF head. It is SN 9160
and is in excellent condx.

I have an excellent manual copy (thanks to a list member).
I used the unit over the holidays because I was feeling guilty
and it performed very well. I think the buyer will enjoy this
classic.

I'd like to get $ 90.00 for the set including shipping CONUS.
If I'm off base on the price, I'm sure the lists will let me
know.

73's.....Jim

Jim Coe W5JI
Oak Crest(Antenna)Farm
Davis, OK, USA

Hollowstaters should never tell their
paramours that the glow in their
eyes reminds them of a favorite radio!!

Date: Tue, 6 Jan 1998 21:46:54 -0600 (CST)
From: Jim Coe W5JI <jcoe@brightok.net>
To: baswaplist@foothill.net
Cc: boatanchors@sco.theporch.com
Subject: FS BC-669
Message-ID: <199801070346.VAA17617@cowboy.brightok.net>

More shack cleaning.....I really need the room.

I have a BC-669 in what I would rate a 8+ condx.
It would be a 9 if I had the time and energy to
replace the connectors between the PS and the
main unit.

I've had the unit on the air on both CW and Phone.
As one list member mentioned, it will load up just
about anything.

All the hardware latches, covers, knobs, meters, etc
are there. The paint is in very good shape and with
a little more cleaning and polishing, it will be
a real beaut. The only mods to the unit are an added
UHF connector on the right side of the transmitter
deck and a selenium rectifier PS (easily removable)
added in a spare socket hole on the modulator deck.

I have a fairly complete manual copy (Thanks to
list member W9RAN) which contains everything
needed to operate and work on the unit.

As a bonus, I have a parts unit power supply that
will be included. It is complete except for the
cabinet and some misc resistors, etc. All xfmrs
are there as well as a spare relay. Its dirty,
but very handy to have.

As you may know, this is a real back breaker
and I don't think I want to try to pack and ship
it. I am in Southern Oklahoma and will deliver
or meet you halfway up to a 200 mile radius from
Davis, OK.

I'd like to get $ 100.00 for the set including the
delivery stated above. If I'm off on the price, I'm
sure I'll hear about it. It needs a good home where
it will be put on the air. Just doesn't fit in my
plans here.

73's.....Jim


```
---------------------------------------------------------------------
  Jim Coe  W5JI             Hollowstaters should never tell their
 Oak Crest(Antenna)Farm        paramours that the glow in their
   Davis, OK, USA           eyes reminds them of a favorite radio!!
---------------------------------------------------------------------
```

Date: Wed, 7 Jan 1998 03:48:21 +0000
From: Sandy W5TVW <ebjr@worldnet.att.net>
To: boatanchors@theporch.com, glowbugs@www.atl.org
Subject: EICO 710 GDO
Message-ID: <19980107034819.AAA3147@LOCALNAME>

I still have an EICO 710 Grid Dipper, with all coils, very well worn in a homebrew wooden box. It is complete and it works OK. It just looks a bit ratty. $30 plus shipping. Even have a book for it!

73,

E. V. Sandy Blaize, W5TVW
"Boat Anchors collected, restored, repaired, traded and used!"
417 Ridgewood Drive
Metairie, LA., 70001

860 Hartley 'ECO' under construction**
*** Looking for a TRC-10 transceiver ******
*** Looking for an RAL receiver ***********

Date: Tue, 06 Jan 1998 22:51:32 EST
From: kb5wwo@juno.com (George T Folse)
To: boatanchors@sco.theporch.com
Subject: Stromberg Carlson Info.
Message-ID: <19980106.215319.9622.2.kb5wwo@juno.com>

All,
   Can someone help me locate some info on this Chassis? The Chassis # is 21212. I need to know the model # of the BC reciever,and also if anyone has the Riders manuals I would like a copy of the Schematic. Normaly Riders will have the model# and the Chassis# listed .This reciever is from the late 20s or early 30s. I will pay the cost of the copy and shipping.
Thanks,

George Folse III KB5WWO kb5wwo@juno.com
630 Dolhonde St.
Gretna,La. 70053
504-362-1896 ph/fax
Collector of Johnson,Heath,& Atwater Kent AMI#937

Date: Wed, 07 Jan 1998 04:31:00 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: aallen <aallen@sirius.com>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: Service manuals-UK sources
Message-ID: <199801070430.EAA06621@punt1.hw.ac.uk>

On 1998-01-06 aallen@sirius.com said:
 aa>Status:
 aa>Now that we're all gathered around a hot cathode, could someone
 aa>point me in the direction of a source for HP manuals? I need
 aa>manuals for a 606B signal generator and its companion 8708A
 aa>synchronizer. Suggestions would be helpfull, I'll do the hard part.

I hope the following UK contacts for Service Data will prove as useful to BA Subscribers as they have to myself.

Hewlett-Packard have a factory near me, and a reputation for being helpful. You could try: HP Ltd, South Queensferry, EH, Scotland, UK; tel [0]131 331 1000. The switchboard there puts you through to the right office anywhere in the world - if you ask the right question! Fax [0]131 331 3000. -OR- Head Office UK: [0]1734 784 774.

OR

KenZen (sic), Unit 9, 16-20 George St, Balsall Heath, B12 9RG, England, UK; tel [0]121 446 4346, fax [0]121 440 5323,

OR

Mauritron Technical Services, 8 Cherry Tree Rd, Chinnor, OX9 4QY, England, UK; tel [0]1844 351 694, fax [0]1844 352 554,

OR

Chevet Supplies Ltd, 157 Dickson Rd, Blackpool, FY1 2EU; tel [0]1253 751 858, fax [0]1253 302 979,

OR

Savoy Hill Publications, 50 Meddon St, BIDEFORD, EX39 2EQ, England, UK; tel and fax [0]1237 424 280; email tudor.gwilliam-rees@virgin.net. Tudor Gwilliam-Rees also offers Vintage Service Data and Manuals for HiFi, Military, Cinema, and (unusually) Domestic Appliances to the 1970s; free pamphlets on many BA interests; and "The Antique Wireless Newsheet" which I recommend for unusual and 1-off BA needs and offers.

Happy Hunting. UNs and 98s de

Bill, aka maestro@cix.co.uk.
GM8APX, qthr=No 6, EH4 6JY==Cave felem==No Rectangulars=Ikke Hawkering

Si domi sum, foris est animus; sin foris sum, animus est domi

Net-Tamer V 1.10 - Registered

Date: Wed, 07 Jan 1998 04:31:17 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: ab <ab@vuse.vanderbilt.edu>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: A Seiberling radio? What?
Message-ID: <199801070431.EAA06630@punt1.hw.ac.uk>

On 1998-01-06 ab@vuse.vanderbilt.edu said:
 ab>stage. Complement is 5Y3 rect, 6SK7 RF, 6SA7 osc/mix, 6SK7 if, 6SQ7
 ab>detector/first audio, 6K6 audio out. Three gang capacitor, trimmers

Your valves appear in Book 1 ('34 - '51) of Radio Valve Guide, pub
Arnold, Broadstone, Dorset, UK.

In "Vintage Radio Valve Line-Up Guide" - at first glance - they SEEM to
appear in POST war sets, by which they mean "from 1939".

UNs and 98s de

Bill, aka maestro@cix.co.uk.
GM8APX, qthr=No 6, EH4 6JY==Cave felem==No Rectangulars=Ikke Hawkering

Aiunt multum legendum esse, non multa

Net-Tamer V 1.10 - Registered

Date: Tue, 6 Jan 1998 22:37:53 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Stanley Wilson <microres@crl.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: CV-89A RTTY TU - Question
Message-ID: <Pine.ULT.3.96.980106223607.305H-100000@admin.aurora.edu>

On Tue, 6 Jan 1998, Stanley Wilson wrote:

> The CV-89A was apart of a AN/URA-8B. I am only working with the CV-89A.
>
> I have figured out how to get it to receive. I am not sure how it
> generates the correct shift on transmitt. Is there anyone on the list
> that many have used or service one of these in the military ?
>
> The tone generator (xmit) appears to have fixed center frequencies.
> between 595 hz and 1765 hz (170 hz steps) I would expect from the age of
> the unit that it would have done 170 hz, 425 hz and 850 hz shifts.

The CV-89 was not used to transmit. The tone output merely repeats
what is received, on different tone freqs, of course. It was for use
to send down a phone line (to what, I dunno).

"Nostalgia is a thing of the past"
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Tue, 6 Jan 1998 22:38:51 -0600 (CST)
From: Jim Coe W5JI <jcoe@brightok.net>
To: boatanchors@sco.theporch.com
Subject: FS Gonset G66B Receivers
Message-ID: <199801070438.WAA24953@cowboy.brightok.net>

Well, the two interested parties the first time I posted these receivers have both located others closer to home, so here it goes again.....Total this time around is $ 90.00 shipped CONUS as I really need to get them out of the workshop.....

I have two Gonset G66B receivers; one that I'll call Black and one I'll call Grey. They are both in good enough condx to be restored fairly easily, or one could be a parts/backup to the other.

Black - Crome front panel with black case. The case may have started out Grey and been painted, but not sure. Crome in good shape (abt an 8.5) with no rust or pitting. All original knobs, missing "Gonset" clip-on logo, dial in 9+ shape, meter sits at S9+10, has 2315 Kc xtal, looks unmodified, has all tubes and xfmrs, dusty but not too hard to clean up. Fellow I got it from said it worked "some" but I have not fired it up as I have not put together a supply cable for it.

Grey - Crome front panel with grey case. Crome has some rust and pitting around sides and front surface has crazing but labeling is good. I'd rate the front panel a 6. Original knobs, but the Volume knob has a concentric pot/switch (not on the Black model) and the small knob for the switch is missing. Looks like a user mod as Moore's book does not show such a control. Have not traced wires to see what switch is used for. Unit is missing 2315 Kc xtal, has "Gonset" clip-on logo, dial is in 9+ shape, meter sits at right hand end of scale as it should (I believe), has all tubes and xfmrs, no obvious mods except for concentric switch and power socket has been removed (looks as if previous owner tried to rewire power socket). Don't know if it will work, but looks like it will be fairly

easy to clean up and restore. (I intended it as a parts rig,
but it is actually better than that)

I would like to sell these as a pair, but my arm could be
twisted with some effort. I would like $ 90.00 shipped
CONUS for the pair including an original manual in fair
condx. Offers will be considered. I can be reached
weekdays at (800)394-2656 or by email if you have questions
about the radios.

73's.....Jim

```
  Jim Coe  W5JI             Hollowstaters should never tell their
 Oak Crest(Antenna)Farm        paramours that the glow in their
   Davis, OK, USA           eyes reminds them of a favorite radio!!
```

Date: Tue, 6 Jan 1998 22:51:20 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Boatanchors <boatanchors@sco.theporch.com>
Subject: RT-3 finally arrived
Message-ID: <Pine.ULT.3.96.980106224808.305J-100000@admin.aurora.edu>

The box from Fair arrived today! WHat a neat little rig! This one looks
like it has never been used. Soon, I will take out the screws and look
inside and test the tubes. This will be a fun unit to get on the air.
Just gotta get it powered up and look thru the old xtal box. Only
problem I can forsee is that it cathode keys, so if using with external
key, beware.....

"Nostalgia is a thing of the past"

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Tue, 06 Jan 1998 23:55:58 -0700
From: Kevin Gallagher <wire2liv@gomontana.com>
To: boatanchors@sco.theporch.com
Subject: Tubes
Message-ID: <34B326FE.D0DA77CC@gomontana.com>

Have the following tubes available, but don't know what they are worth. Please reply if interested or needed. Eimac 4X150 and 4CX250K, lightly used and guaranteed. 1 Eimac 8877 NIB with papers and warrenty card. Several Western Electric 452A, (2K25) and 416B's. Also several NIB 250Th's, and Jan 2c43"s. Thanks, Kevin

---

Date: Wed, 7 Jan 1998 06:50:00 -0500
From: polepeeg@aa4rm.radio.org (BA x-actions hr)
To: ab@vuse.vanderbilt.edu, boatanchors@theporch.com
Subject: Re: A Seiberling radio? What?
Message-ID: <199801071150.GAA13781@aa4rm>

Well Seiberling was a tire company - the one, I think, that advertised with the infant carrying a night candle. That night candle in the infant's hands always looked more worrisome than tire trubs.

Can't guess if the radio'r related - or was given to good dealers. Or what.

Good job on bringing it back

M

Date: Wed, 7 Jan 1998 07:14:35 -0500
From: polepeeg@aa4rm.radio.org (BA x-actions hr)
To: boatanchors@theporch.com
Subject: 6D5s anyone?
Message-ID: <199801071214.HAA13875@aa4rm>

It's a metal octal that looks like a metal 6V6 or 6F6.

I've got two nice test-new 6CA7s to trade for 3 6D5s

Gotta project in mind.

Tks,

Marty

Date: Wed, 7 Jan 1998 07:39:54 -0500 (EST)
From: William Donzelli <william@ans.net>

To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: 6D5s anyone?
Message-ID: <Pine.GSO.3.96.980107073901.8113A-100000@titan.purch.ans.net>

> It's a metal octal that looks like a metal 6V6 or 6F6.

Arcturus made some in a GT envelope as well.

William Donzelli
william@ans.net

End of BOATANCHORS Digest 1868
****

>From ???@??? Thu Jan 08 00:21:09 1998
Message-Id: <199801080142.TAA22844@sco.theporch.com>
Date: Wed, 7 Jan 1998 19:42:00 CST
Subject: BOATANCHORS digest 1869

BOATANCHORS Digest 1869

Topics covered in this issue include:

1) Re: Microtubes
   by "Terry O'Laughlin" <terryo@wort-fm.terracom.net>
2) Re: Microtubes
   by William Donzelli <william@ans.net>
3) Re: Flexible coupling breakage
   by jschwart@ix.netcom.com (John Schwartzberg)
4) Crystals wanted
   by w2ec@vnet.IBM.COM
5) Drake TR4 question
   by john <johnmb@mindspring.com>
6) HQ-129X Questions
   by wally@mindy.sys.sdl.usu.edu (Wally Gibbons)
7) Re: HQ-129X Questions
   by Al Klase <skywaves@bw.webex.net>
8) Resistor in 6H6 heater circuit
   by GIBSON@ASTRA.LBL.GOV
9) HQ-129X Questions
   by "Rhett T. George" <rtg@ee.duke.edu>
10) Titanic radio room
   by GIBSON@ASTRA.LBL.GOV
11) FS: NIB 6LF6/6MH6 sweep tubes
   by "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>

12) Re: RT-3 finally arrived
    by Ken Gordon <keng@uidaho.edu>
13) BC-470 and loop LP-22D
    by BEN NOCK <G4BXD@compuserve.com>
14) RBZ rx, scull cap needed
    by BEN NOCK <G4BXD@compuserve.com>
15) FR and GRC-109
    by BEN NOCK <G4BXD@compuserve.com>
16) Re: FR and GRC-109
    by "J. Herman" <jherman@sierra.net>
17) Re: Crystals wanted
    by Ken Gordon <keng@uidaho.edu>
18) Re: HQ-129X Questions
    by Ken Gordon <keng@uidaho.edu>
19) Re: Resistor in 6H6 heater circuit
    by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
20) Re: Flexible coupling breakage
    by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
21) Re HQ-129
    by philip mccoy <dgnova@erols.com>
22) Re: Re HQ-129
    by Ken Gordon <keng@uidaho.edu>
23) BA Locations in CA
    by "Fishman, Clark" <cfishman@pica.army.mil>
24) Question re SX-73
    by WJoeW <WJoeW@aol.com>
25) Resistor in 6H6 heater circuit
    by "Rhett T. George" <rtg@ee.duke.edu>
26) RE: Question re SX-73
    by Dennis Gibbs <dgibbs@Rational.Com>
27) RT-3 and T-784
    by Kd6b <Kd6b@aol.com>
28) HQ-129-X comments
    by Ralph Parker <rparker@istar.ca>
29) FS: Too Much Stuff
    by "Steven K. Wenger" <swenger@csj.net>
30) Tube case
    by Raymond Cote <cote@lepton.soest.hawaii.edu>
31) R390 PWR connector
    by laffitte@prtc.net (laffitte)

Date: Tue, 06 Jan 1998 16:57:33 -0600
From: "Terry O'Laughlin" <terryo@wort-fm.terracom.net>
To: boatanchors@theporch.com
Subject: Re: Microtubes
Message-ID: <3.0.3.16.19980106165733.3d4f0a76@terracom.net>

I remember an article in Electronic Design a few years back. Microtubes
were not tubes as we think of them. They are an attempt to move electronics
in micro vacuum to get around the limitations of silicon, diamonds....
Basically solid state without a substrate.

73 Terry O' WB9GVB

Date: Wed, 7 Jan 1998 09:58:11 -0500 (EST)
From: William Donzelli <william@ans.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Microtubes
Message-ID: <Pine.GSO.3.96.980107095707.8113G-100000@titan.purch.ans.net>

> I remember an article in Electronic Design a few years back. Microtubes
> were not tubes as we think of them. They are an attempt to move electronics
> in micro vacuum to get around the limitations of silicon, diamonds....
> Basically solid state without a substrate.

Perhaps, but at least a few of the research efforts were centered around
the use of very small thyratrons.

William Donzelli
william@ans.net

Date: Wed, 7 Jan 1998 08:59:53 -0600 (CST)
From: jschwart@ix.netcom.com (John Schwartzberg)
To: boatanchors@theporch.com
Subject: Re: Flexible coupling breakage
Message-ID: <199801071459.IAA12570@dfw-ix8.ix.netcom.com>

>Ben Hall wrote:
>
>>I'm a mech engr,
>>but I'm not a metalurgist - but I do remember that some metals,
>>particularly steels, do harden with age, making them more brittle. (I
>>don't remember the how and why as to why this occurs) Any idea what
>>material they are? Any metalurgists or materials folks out there?
>
>Without any other other influences, common engineering metals and alloys
will not embrittle simply due to the passage of time. Other factors,
including temperature, cold work, radiation, and corrosion, can cause
embrittlement in many engineering alloys and metals.

>
>73,
>
>John Schwartzberg, P.E.
>Metallurgical Engineer
>N0GII
>
>
jschwart@ix.netcom.com

Date: Wed, 7 Jan 98 10:17:00 EST
From: w2ec@vnet.IBM.COM
To: boatanchors@sco.theporch.com
Subject: Crystals wanted
Message-ID: <199801071517.JAA06990@sco.theporch.com>

Need a crystal (FT-243, CR/1A or similar) for 3560 and 7060. Also be
interested in anything close to that range 3550-3570 and 7050-7070.

73, Ray W2EC w2ec@vnet.ibm.com

Date: Wed, 07 Jan 1998 10:19:35 -0500
From: john <johnmb@mindspring.com>
To: boatanchors@theporch.com
Subject: Drake TR4 question
Message-ID: <199801071519.KAA28173@camel8.mindspring.com>

Friends,
I need to clean the T/R relays in a recently revived transceiver,
and in order to do so, I need to get the cage off the finals. I know
this is a dumb question , but how do you get the shafts from the
load and tune caps off, so that the cage will slip off over them?

There are two couplers (kind of pale white phenolic/plastic)
on there but it's not apparent to me how they come apart.

Hints, anyone?
Thank you!
/John
+---+
|Wanted: Howard Co. receiver/acc'ys/docs |
| AWA-OTB back issues... |

Date: Wed, 7 Jan 98 08:48:20 MST
From: wally@mindy.sys.sdl.usu.edu (Wally Gibbons)
To: boatanchors@theporch.com
Subject: HQ-129X Questions
Message-ID: <9801071548.AA22960@mindy.sys.sdl.usu.edu>

Greetings,

Just had my "loaner" 129 returned to me, and nows the time to do an electrical restoration on it. The previous owner had removed the 6K8 and put in a miniature 6X8 in it's place. This must have been a common mod as this is the second one I've had with this modification. I've got that put back to stock with a 6K8, but I found that all the IF tubes and the RF amp are now 6AC7's!!

Why would anyone do that? Perhaps more gain, or performance on 15 or 10 meters?

The circuits are stock, just a tube substitution. No other parts have been altered, such as AVC, etc.

Next, 6SS7's are a little rare in the shack. I've got lots of 6SK7's. They close enough? Or is the 6SS7 worth getting to put the radio back to original condition?

Thanks for any comments.

Wally Gibbons
wally@mindy.sys.sdl.usu.edu

Date: Wed, 07 Jan 1998 11:42:31 -0500
From: Al Klase <skywaves@bw.webex.net>
To: wally@mindy.sys.sdl.usu.edu
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: HQ-129X Questions
Message-ID: <34B3B077.6A9F1AD3@bw.webex.net>

Wally Gibbons wrote:
>
> I found that all the IF tubes and the RF amp are now 6AC7's!!

This is a disaster, especially in the IF, as AVC will be completely hosed. Theoretically, the 6AC7's could offer lower noise in the RF stage, but I'll bet you have overload and intermod problems on strong sigs.
The designers used remote-cutoff pentodes for a reason!
>
> Next, 6SS7's are a little rare in the shack. I've got lots of 6SK7's. They
> close enough? Or is the 6SS7 worth getting to put the radio back to original
> condition?

The 6SK7's are probably close enough.

73,
Al

--
Al Klase - N3FRQ
skywaves@bw.webex.net
Flemington, NJ 08822
Web Page: http://www.webex.net/~skywaves/home.htm

Date: Wed, 7 Jan 1998 8:44:37 -0800
From: GIBSON@ASTRA.LBL.GOV
To: boatanchors@theporch.com
Subject: Resistor in 6H6 heater circuit
Message-ID: <980107084437.27e007ce@ASTRA.LBL.GOV>

The 6H6/6AL5 used in many receivers contains two diodes, one is used for the AM detector, the other in a noise limiter circuit. The AM det. has its cathode grounded or at a low impedance to ground so interference on the 6.3 V AC is not a problem. The NL diode however has its cathode connected in the high impedance to ground audio signal path.

Now if we look at the construction of a 6H6 cathode, there is a metal cylinder coated with electron emitting oxides and within it and insulated from it is a tungsten filament running at yellow-red heat, i.e. a bright emitter parasitic diode.

One side of the 6.3V AC is usually grounded so part of this filament is alternating plus and minus in voltage. The cathode cylinder is at about zero volts so on negative filament excursions 60 Hz rectified pulses flow into the cathode circuit and cause hum in the audio.

The performance of a bright emitter diode falls off much faster than that of a indirectly heated diode with reduced heater current so a series heater resistor cures the hum problem.

John Gibson.

Date: Wed, 7 Jan 1998 12:34:47 -0500
From: "Rhett T. George" <rtg@ee.duke.edu>
To: boatanchors@theporch.com
Subject: HQ-129X Questions
Message-ID: <199801071734.MAA01289@dsil13.ee.duke.edu>

- Greetings -

Thanks to Wally Gibbons for raising some good questions. The Sylvania manual shows a transconductance (gain factor) for the 6AC7 of 9000 umhos and same for 6SS7 of about 1900 umhos. Obviously the 6AC7 will pump more signal thru the circuit. That comes at a price of drawing a a bit more plate and screen current and 3X more heater current.

Presumably the power transformer in the HQ-129X has handled this load without complaint. It is only 6 W more in the heater department for the 6AC7 vs 6SS7 (three of them). No one has mentioned these power transformers as being tender. Probably the 6SK7 falls in between the aforementioned tubes in performance and power drain.

I found last night that WWV on 10 MHz came in with considerable strength on a 65' wire here in NC. On scanning up the dial for a little code to practice with, I found WWV again at 10.910 MHz. Any thoughts on image rejection capability of the HQ-129X that one of you will share with us BA'ers.

73 Rhett - KE4HIH

Date: Wed, 7 Jan 1998 9:36:49 -0800
From: GIBSON@ASTRA.LBL.GOV
To: boatanchors@theporch.com
Subject: Titanic radio room
Message-ID: <980107093649.27e007d0@ASTRA.LBL.GOV>

The 10 second shot of the Titanic radio room looks great but instant disillusion set in as soon as Phillips starts sending - just key clicks. When I used to operate the Marconi shipboard emergency spark set, there was the whine of the motor alternator changing pitch with load and the loud hiss of the quenched spark gap.
The Titanic movie is a feast for the eyes but the story line is for teenagers

John Gibson.

Date: Wed, 07 Jan 1998 18:44:51 +0100
From: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
To: "Boatanchors List" <boatanchors@sco.theporch.com>
Cc: BAswaplist@foothill.net
Subject: FS: NIB 6LF6/6MH6 sweep tubes
Message-ID: <3.0.1.32.19980107184451.006ca38c@pop.ctv.es>

Hi gang,

Doing some sorting of my transmission tube boxes, I've found two NIB 6LF6 which are surplus to my needs. One is Philips ECG and the other is Zenith. Both are boxed. AES price is $44.80 each!. My price is somewhat lower: $55 for both SHIPPED by Air Mail (from Spain) to your door.

Please, let me know if I'm way out in the price.

Best regards.

JOSE
---
73 EB5AGV / EC5AAU
JOSE V. GAVILA
Ausias March 46, 15
46910 Benetusser - VALENCIA
SPAIN

http://www.geocities.com/SiliconValley/6992/
e-mail: eb5agv@ctv.es & eb5agv@amsat.org

Date: Wed, 7 Jan 1998 10:13:52 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: Bob Roehrig <broehrig@ADMIN.AURORA.EDU>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: RT-3 finally arrived
Message-ID: <Pine.BSF.3.95.980107100730.6594D-100000@piobaire.mines.uidaho.edu>

> The box from Fair arrived today! WHat a neat little rig! This one looks
> like it has never been used. Soon, I will take out the screws and look
> inside and test the tubes. This will be a fun unit to get on the air.
> Just gotta get it powered up and look thru the old xtal box. Only
> problem I can forsee is that it cathode keys, so if using with external
> key, beware.....

I use the T-784 here. Two of the connections on the front panel are for connecting an external key. I use my MacElroy bug on it just fine. No sweat. The thing is just ****FUN**** to use! Be very sure you are following the tuning chart front panel to tune up with though. It is VERY easy to operate on an harmonic since often the lights will light in the wrong dip.

And I could tell immediately when my antenna broke near one end. The output light peaked in a different spot.

You may not want to use the antenna connection to the receiver. Although this allows full QSK, there is so much suck-out through the transmitter's tuned circuits that rx sensitivity is badly cut down.

One of our list members here measured -30db on some frequencies. I use an external antenna relay for full qsk to eliminate the suck-out and to quiet the receiver a bit more. Got it from an old HR article with some mods of my own. Will post it on my web page ASAP.

Ken W7EKB

Date: Wed, 7 Jan 1998 13:20:03 -0500
From: BEN NOCK <G4BXD@compuserve.com>
To: Multiple recipients of l <boatanchors@sco.theporch.com>
Subject: BC-470 and loop LP-22D
Message-ID: <199801071320_MC2-2E6D-61F8@compuserve.com>

I am looking for any info, circuit diagram, handbook etc
for the BC-470 df set. In particular, the power requirements and
the pin outs for the rear mounted supply plug.

cheers, Ben G4BXD

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COLLECTOR OF MILITARIA, RADIOS, WEAPONS, UNIFORMS
North Worcestershire, England, U.K.
Member: MWARS, SRS, WWII Soc, RSGB, 39/45 Group,
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Date: Wed, 7 Jan 1998 13:19:58 -0500
From: BEN NOCK <G4BXD@compuserve.com>
To: Multiple recipients of l <boatanchors@sco.theporch.com>
Subject: RBZ rx, scull cap needed
Message-ID: <199801071320_MC2-2E6D-61F2@compuserve.com>

I am looking for the scull cap used with the RBZ receiver, also
the helmet aerial clip and plug.

I have the earphones so a bare or empty cap wold be fine.

cheers, Ben G4BXD

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COLLECTOR OF MILITARIA, RADIOS, WEAPONS, UNIFORMS
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Member: MWARS, SRS, WWII Soc, RSGB, 39/45 Group,
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Date: Wed, 7 Jan 1998 13:20:05 -0500
From: BEN NOCK <G4BXD@compuserve.com>
To: Multiple recipients of l <boatanchors@sco.theporch.com>
Subject: FR and GRC-109
Message-ID: <199801071320_MC2-2E6D-61FB@compuserve.com>

In responce to my request for info on 109 bits at FR I got this:
---=
--

>FAIR RADIO SALES CO JANUARY 5, 1998
T-784A ONLY AVAILABLE, VERY LOW STOCK $35.00 EACH.
ALSO A FEW RT-3 $24.95
PP-2684 POWER SUPPLY $29.95
PP-2684A POWER SUPPLY 32.00.
PLUS SHIPPING.
---=
--

Though their cat states $25 I guess an A version is worth $10 =

more ? I dont know.

Ben G4BXD.

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COLLECTOR OF MILITARIA, RADIOS, WEAPONS, UNIFORMS
North Worcestershire, England, U.K.
Member: MWARS, SRS, WWII Soc, RSGB, 39/45 Group,
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Date: Wed, 7 Jan 1998 10:59:16 -0800 (PST)
From: "J. Herman" <jherman@sierra.net>
To: BEN NOCK <G4BXD@compuserve.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: FR and GRC-109
Message-ID: <Pine.SUN.3.95.980107105240.26659E-100000@diamond.sierra.net>

On Wed, 7 Jan 1998, BEN NOCK wrote:
>
> Though their cat states $25 I guess an A version is worth $10
> more ? I dont know.

Hi Ben - I ordered the 784A two weeks ago - it was $30, then.
Upon my first email, I asked Fair if they had a NOS or NIB
784A; no, but they said all their 784A's were in very good
cond.

Still waiting for that darn UPS truck...

73, Jeff KH2PZ/7

Date: Wed, 7 Jan 1998 11:23:58 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: w2ec@vnet.IBM.COM
Cc: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Crystals wanted
Message-ID: <Pine.BSF.3.95.980107112238.6594K-100000@piobaire.mines.uidaho.edu>

> Need a crystal (FT-243, CR/1A or similar) for 3560 and 7060. Also be
> interested in anything close to that range 3550-3570 and 7050-7070.

See John at C-W Crystals if no one happens to have one you can have.

Address:

C-W Crystals
1714 North Ash St.
Nevada, Missouri
(417)-667-6179
cwxtal@u-n-i.net

Ken W7EKB

Date: Wed, 7 Jan 1998 11:27:50 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: Wally Gibbons <wally@mindy.sys.sdl.usu.edu>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: HQ-129X Questions
Message-ID: <Pine.BSF.3.95.980107112507.6594L-100000@piobaire.mines.uidaho.edu>

> I found that all the IF tubes and the RF amp are now 6AC7's!!

Interesting!

>
> Why would anyone do that? Perhaps more gain, or performance on 15 or 10 meters?

6AC7s have MUCH higher gM and are essentially a sharp-cutoff pentode.
Would have more gain and could introduce less noise (if one doesn't happen
to oscillate), but would be much more likely to overload on strong
adjacent signals. There actually should have been some biasing mods done
to get the most good out of this mod and to lessen bad effects. Probabaly
not done since it is actually not worth the effort.

>
> The circuits are stock, just a tube substitution. No other parts have been
> altered, such as AVC, etc.
>
> Next, 6SS7's are a little rare in the shack. I've got lots of 6SK7's. They
> close enough? Or is the 6SS7 worth getting to put the radio back to original

> condition?

If I were going to restore mine, I would use ALL stock tubes.

Ken

Date: Wed, 07 Jan 1998 19:48:28 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: GIBSON <GIBSON@ASTRA.LBL.GOV>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: Resistor in 6H6 heater circuit
Message-ID: <199801071948.TAA11134@punt1.hw.ac.uk>

On 1998-01-07 GIBSON@ASTRA.LBL.GOV said:
 GI>within it and insulated from it is a tungsten filament running at
 GI>yellow-red heat, i.e. a bright emitter parasitic diode.
 GI>One side of the 6.3V AC is usually grounded so part of this
 GI>filament is alternating plus and minus in voltage. The cathode
 GI>cylinder is at about zero volts so on negative filament excursions
 GI>60 Hz rectified pulses flow into the cathode circuit and cause hum
 GI>in the audio. The performance of a bright emitter diode falls off
 GI>much faster than that of a indirectly heated diode with reduced
 GI>heater current so a series heater resistor cures the hum problem.
 GI>John Gibson.

Was I right in believing that a common reason for under-running heaters
is less hum?

Bill, aka maestro@cix.co.uk.
GM8APX, qthr=No 6, EH4 6JY==Cave felem==No Rectangulars=Ikke Hawkering

Silent enim leges sunt inter arma

Net-Tamer V 1.10 - Registered

Date: Wed, 07 Jan 1998 19:48:23 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: jschwart <jschwart@ix.netcom.com>
Cc: boatanchors <boatanchors@theporch.com>

Subject: Re: Flexible coupling breakage
Message-ID: <199801071948.TAA11131@punt1.hw.ac.uk>

On 1998-01-07 jschwart@ix.netcom.com said:
 js>>Without any other other influences, common engineering metals and
 js>alloys will not embrittle simply due to the passage of time. Other
 js>factors, including temperature, cold work, radiation, and corrosion,
 js>can cause embrittlement in many engineering alloys and metals.

I was told by someone who used to turn valves on and off, and repeatedly
retest them, (in the employ of a valve mfr in Kent in the '40s) that the
main reason for valves deteriorating was "thermal cycling".

Bill, aka maestro@cix.co.uk.
GM8APX, qthr=No 6, EH4 6JY==Cave felem==No Rectangulars=Ikke Hawkering

Hennus non potest de aliquid superficere mentem

Net-Tamer V 1.10 - Registered

Date: Wed, 07 Jan 98 15:48:08 -0800
From: philip mccoy <dgnova@erols.com>
To: boatanchors@sco.theporch.com
Subject: Re HQ-129
Message-ID: <199801071956.OAA08388@smtp2.erols.com>

My advice is to pull the 6AC7s out, an through them in the
trash can.

The 6AC7 has higher gm and lower noise resistance than the 6SS7,
but the 6AC7's input impedance is so low, your image rejection
will suffer.

The noise resistance of the 6SS7 is by my calculations 10668 ohms,
and of the 6SK7 11110 ohms. The plate resistance of the 6SK7
of 800k is lower than the 6SS7 rp of 1 meg but this is not much
of a difference. You will get better selectivity in your IF with
the 6SS7s, but the difference is small, maybe not noticeable.

I would use the 6SK7s until you can find 6SS7s at a hamfest for
a low price.

It's odd, but the HQ120 used 6S7s instead of the 6K7s as the

HQ129 used 6SS7s instead of 6SK7s

The 6SS7 has a 150ma filament, and was designed for use in farm radios.

Oh well I am through babling.

Philip McCoy dgnova@erols.com

Date: Wed, 7 Jan 1998 12:08:48 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: philip mccoy <dgnova@erols.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Re HQ-129
Message-ID: <Pine.BSF.3.95.980107120614.8652H-100000@piobaire.mines.uidaho.edu>

> My advice is to pull the 6AC7s out, an through them in the
> trash can.

Throw them MY way. I consider them to be one of the best oscillator tubes going. The only one better is the 6AG7.

>
> The 6AC7 has higher gm and lower noise resistance than the 6SS7,
> but the 6AC7's input impedance is so low, your image rejection
> will suffer.

Right!!!!! Sometimes severely, as someone noted here.

>
> It's odd, but the HQ120 used 6S7s instead of the 6K7s as the
> HQ129 used 6SS7s instead of 6SK7s

Single-ended tubes vs. top cap. Easier (in some cases) to keep circuits separated.

Ken W7EKB

Date: Wed, 7 Jan 1998 16:14:08 -0500
From: "Fishman, Clark" <cfishman@pica.army.mil>
To: "'boatanchors@theporch.com'" <boatanchors@theporch.com>
Subject: BA Locations in CA
Message-ID: <61184F6C1EF9D0119A6300609798EA461F425B@pica-emh9.pica.army.mil>

I am going to Yuma, Az and will drive to San Deigo on the weekend
Are there any surplus stores along the way near US. 8 ???

Clark Fishman WA2UNN cfishman@pica.army.mil

Date: Wed, 7 Jan 1998 16:03:56 EST
From: WJoeW <WJoeW@aol.com>
To: boatanchors@theporch.com
Subject: Question re SX-73
Message-ID: <67dd08ed.34b3edbf@aol.com>

I just acquired an SX-73. The dial bezel is brown and the rest of the
receiver is gray. Is this weird, or is this normal?

Joe
W5WBR

Date: Wed, 7 Jan 1998 16:23:59 -0500
From: "Rhett T. George" <rtg@ee.duke.edu>
To: boatanchors@theporch.com
Subject: Resistor in 6H6 heater circuit
Message-ID: <199801072123.QAA07083@dsil11.ee.duke.edu>

- Greetings -

Bill Jarvis and John Gibson have added to our understanding of why a 6H6
heater may be run on less than 6 VAC. Less hum is a good possibility.
One may correctly consider the parasitic diode as a hum source with
electron current flowing from tungsten heater to the nickle cathode.
But the effect is likely to be small for the following reason.

It is a sure bet that the tube manufacturers did not thoriate heater
tungsten to improve emission. In fact, most tube manuals list 90 V
as the maximum potential difference between heater and cathode.
Therefore the desire is to keep down emission from the heater. At
elevated temperatures, a few electrons might make the trip thru the
heater's surface insulation. Don't thoriate the heater!

What about non-thoriated tungsten? After looking at the room-lighting effect of transmitting triodes, it looks like electrons are gotten from tungsten only with difficulty. Max Knoll's book suggests 2500 K as the max operating temp for reasonable life with an electron emission of 0.3 A/cm^2. If I dig long enough, I may find a figure for thoriated tungsten. No matter, we all know that the 5U4 filament is not a white, glowing source.

Thanks, Arden. You set me to thinking about the I vs V curve for the diode. A hot cathode boils off those lil' electron critters with maybe 2 ev of energy. This means you can fire up the 6H6, put the positive lead of your VTVM or other high-R voltmeter on the plate, negative lead on the cathode, and read about -2 V. Cool down the cathode and bring that voltage down close to zero. Now zero current is reached with zero voltage rather than -2 V. This makes the rectifier of small voltages look more ideal. That would be a fine reason to lower the voltage - more nearly true diode action rather than square-law detection.

John is on the target with his heater comments. However, the effect may be as much capacitive coupling between the heater and cathode as parasitic diode operation. We have seen lots of circuits where the heater supply goes to a pot with the slider grounded. Yes, rotate the slider until minimum hum is heard.

No doubt the sum of the good effects is a reason to reduce the heater voltage on that lil' 6H6.

73 Rhett - KE4HIH

Date: Wed, 7 Jan 1998 16:25:50 -0500
From: Dennis Gibbs <dgibbs@Rational.Com>
To: "'WJoeW@AOL.COM'" <WJoeW@AOL.COM>,
Old Tube Radios
Subject: RE: Question re SX-73
Message-ID: <01BD1B88.EB98BE00@dutch.rational.com>

Joe,

It's normal.

Congratulations on your SX-73 acquisition. In my opinion this receiver has the best
audio of any others I have used.

Dennis Gibbs
dgibbs@rational.com

I just acquired an SX-73. The dial bezel is brown and the rest of the receiver is gray. Is this weird, or is this normal?

Joe
W5WBR

Date: Wed, 7 Jan 1998 16:27:49 EST
From: Kd6b <Kd6b@aol.com>
To: boatanchors@theporch.com
Subject: RT-3 and T-784
Message-ID: <2f078772.34b3f356@aol.com>

Hi all,
When operating these transmitters you may get "bit" off the antenna connector. Most likely it is not RF but rather your fingers are acting as a resistor to charge-up the DC block capacitor in the PI network. Cure this by putting a 2.5 mH RF choke across the antenna leads or a large value resistor (I used a 220K resistor).

One of the crystal connectors is the correct pin spacing for FT-171 crystals. I used banana plug jacks, of the same diameter and thread pitch as the original crystal pin jacks, to modify the TX for FT-171 crystals. It was only necessary to unscrew the pin jacks and screw in the banana jacks using the same internal hardware and insulators. The un-insulated banana jacks I used appear to be of the type found on ceramic plug-in-coil jack bars.

I use my GRC-109 camping and run the set off a 6V golf cart battery.

73
Ken Lakin

Date: Wed, 07 Jan 1998 15:57:56 -0800
From: Ralph Parker <rparker@istar.ca>
To: boatanchors@theporch.com
Subject: HQ-129-X comments
Message-ID: <3.0.5.16.19980107155756.2bc71694@istar.ca>

Wally Gibbons wrote:

>The previous owner had removed the 6K8 and put in a 6X8 in it's place.
>This must have been a common mod as this is the second one
>I've had with this modification.

I recently bought an HQ-129-XC from a local ham who probably bought it new. 'XC'= made in Canada by Stromberg Carlson. The 'Hammarlund' and 'HQ-129-X' are in red, other lettering in white. Most tubes made by Marconi in Canada, and have stickers on them '3-48', obviously a date. Mostly original 6SS7s. Different power xfmr than my US model, looks like a Hammond. External fuse. It also has the 6X8 mod, very well done, and I'm going to leave it in. It came with a copy of CQ, April 1952, which details the mod. (p.24)

Just re-capped it completely, almost ready to plug it in. Wish me luck.

Ralph, VE7XF

Date: Wed, 7 Jan 1998 18:03:10 -0600 (CST)
From: "Steven K. Wenger" <swenger@csj.net>
To: Boatanchors <boatanchors@theporch.com>
Subject: FS: Too Much Stuff
Message-ID: <Pine.LNX.3.93.980107171043.18736A-100000@lisa.csj.net>

Greetings,

I have come to the realization that I have amassed too many high power AM transmitter and linear amplifier parts over the last 15 years. So what to do? I could sell and ship it item by item, and may eventially do that. I could go to hamfests all summer and recycle it the same way I got it. I wish I had more time so I could do either. But since I am short on time, is there any homebrewer out there that needs the following and is willing to drive to central Illinois and pick it all up CHEAP. I have the following items in general (I do not want to take up bandwidth with a long list, but will provide specifics privately):

1. Several high power mod transformers (e.g., Thordarson 500 watt Multi-match)
2. Several HV transformers - 3000V, 500ma.
3. Several Oil filled caps - 32 uf at 4500V
4. Modulation reactor - 120h
5. Several large breadslicers
6. Transmitting tube sockets (e.g., 833A, 250th, 304tl, etc)
7. Several 500 ma. chokes
8. Some transmitting tubes
9. Plate chokes, blocking caps, fans, and so on.

Basically the kind of stuff to build big linears and transmitters. I have

built a few but do not need to build any more.

I wish I had the time to ship the items individually, but for now let me try the in toto and pick up only approach.

Will consider trades. Have developed a fondness for BA receivers to go with the homebrew transmitting stuff.

73,
Steve KA9QLF
Jacksonville, Il.
(217)243-3920

Date: Wed, 07 Jan 1998 14:51:56 -1000
From: Raymond Cote <cote@lepton.soest.hawaii.edu>
To: BA boatanchors <boatanchors@theporch.com>
Subject: Tube case
Message-ID: <34B4232C.2B9D0A10@lepton.soest.hawaii.edu>

This is a multi-part message in MIME format.
----------5385D4A8C494A262492B16F4
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang, I have a TUNG_SOL tube carrying case (full) that I will sell to anyone wanting it. It is the kind a technician would bring with him when he would check the tubes in your TV. I think it was called a tube CADDY??

I will send a list of tubes included to anyone requesting it as there are about 100 tubes and the list too long for this message.

I guess $60 plus shipping would be a good place to start the pricing. Remember, the first message with a definite purchase intent will get it, not the first who wants a list of tubes.

Regards, Ray Cote

----------5385D4A8C494A262492B16F4
Content-Type: text/x-vcard; charset=us-ascii; name="vcard.vcf"
Content-Transfer-Encoding: 7bit
Content-Description: Card for Cote, Raymond
Content-Disposition: attachment; filename="vcard.vcf"

```
begin:          vcard
fn:             Cote, Raymond
n:              Raymond;Cote,
org:            Hawaii INstitute of Geophysics
email;internet: cote@lepton.soest.hawaii.edu
x-mozilla-cpt:  ;0
x-mozilla-html: FALSE
version:        2.1
end:            vcard
```

----------5385D4A8C494A262492B16F4--

Date: Wed, 07 Jan 1998 21:39:20 -0400
From: laffitte@prtc.net (laffitte)
To: boatanchors@theporch.com
Subject: R390 PWR connector
Message-ID: <34B42E42.41EF6E9D@prtc.net>

Hi Anchorites:

I hope that the year is starting for everyone very positively. A few moments ago I finished the modification and installation of Fair Radio's CX-2583 cable assembly associated power connector to my R390(nonA). The connector comes with a DC power cable that must be removed and replaced with a standard AC connector. Removal of the DC cable was straight forward and required only the removal of the connector's tightening screw assembly. This involved unscrewing the locknut that hold the tightening crew in place and just pushing the screw out. This exposed connecting pins for the power cable and it was easy to desolder the heavy DC cable. A new 3 cable AC connector was installed and the whole connector screwed easily in place. The only problem encountered was the removal of solder from the male connecting pins in the radio. This must be removed well in order for the connector to fit properly. Not only does the connector looks good and original, it also provides a sturdy, secure and safe connection. The way it was meant to be. I thought that this could be of interest to R390(nonA) owners. The cable assembly is about $7.00 if I am not incorrect.

TNX and Best of 73s
Guido E. Santacana KP4FAR
BA collector in the tropics

End of BOATANCHORS Digest 1869
****